CLAIM AMENDMENTS

The following is a complete listing of the pending claims:

CLAIMS

1. (Currently amended) A method for detecting a positioning signal, the positioning signal being divided into segments, comprising:

processing each segment in a subset of the segments by:

correlating the a segment ~~of a received positioning signal~~ with a reference signal of a selected code phase and frequency to obtain a complex correlation value;

processing the complex correlation value to provide a non-coherent correlation value;

summing the non-coherent correlation value with a previously-calculated non-coherent integration sum to provide a current non-coherent integration sum;

if the current non-coherent integration sum ~~correlation value~~ is less than a predetermined minimum, assigning the ~~correlation value~~ current non-coherent integration sum to the predetermined minimum; and

upon processing of a sufficient number of the segments, processing the current non-coherent integration sum to determine whether the positioning signal is detected according to the selected code phase and frequency

~~accumulating the correlation value in a sum of correlation values obtained using other segments of the received positioning signal~~.

2. (Currently amended) A method as in Claim 1, ~~further comprising~~ wherein processing the complex correlation value includes obtaining a modulus of the complex correlation value and reducing the modulus ~~correlation value~~ by a predetermined value.

3. (Currently amended) A method as in Claim 2, wherein the modulus ~~correlation value~~ is reduced by an expected mean value for a noise component in the ~~segment of the received~~ positioning signal.

4. (Currently amended) A method as in Claim 3 ~~1~~, wherein processing the complex correlation value includes ~~further comprising~~ quantizing the modulus ~~correlation value~~.

5. (Cancelled)

6. (Currently amended) A method as in Claim 1, ~~further comprising~~ wherein processing the current non-coherent integration sum includes comparing the current non-coherent integration sum ~~of correlated values~~ to a predetermined threshold value.

7. (Currently amended) A method as in Claim 1 ~~6~~, wherein the sufficient number of segments is reached if ~~accumulating is not further carried out for additional segments of the received positioning signal when~~ the current non-coherent integration sum ~~of correlated values~~ exceeds ~~the~~ a predetermined value.

8. (Cancelled)